

## Table of Contents: Volume 1 (1986)

### Number 1

On Machine Learning .....	<i>P. Langley</i>	5
Chunking in Soar: The Anatomy of a General Learning Mechanism .....	<i>J. E. Laird, P. S. Rosenbloom and A. Newell</i>	11
Explanation-Based Generalization: A Unifying View .....	<i>T. M. Mitchell, R. M. Keller and S. T. Kedar-Cabelli</i>	47
Induction of Decision Trees .....	<i>J. R. Quinlan</i>	81
A Theory of Historical Discovery: The Construction of Componential Models .....	<i>J. M. Zytkow and H. A. Simon</i>	107

### Number 2

The Terminology of Machine Learning .....	<i>P. Langley</i>	141
Explanation-Based Learning: An Alternative View .....	<i>G. DeJong and R. Mooney</i>	145
A General Framework for Induction and a Study of Selective Induction .....	<i>L. Rendell</i>	177
News and Notes .....	<i>T. G. Dietterich</i>	227

### Number 3

Human and Machine Learning .....	<i>P. Langley</i>	243
Experimental Goal Regression: A Method for Learning .....		
Problem-Solving Heuristics .....	<i>B. W. Porter and D. F. Kibler</i>	249
Learning at the Knowledge Level .....	<i>T. G. Dietterich</i>	287
Incremental Learning from Noisy Data .....		
<i>J. C. Schlimmer and R. H. Granger, Jr.</i>	317	
News and Notes .....	<i>T. G. Dietterich</i>	355

### Number 4

Machine Learning and Discovery .....		
<i>P. Langley and R. S. Michalski</i>	363	
Integrating Quantitative and Qualitative Discovery: The ABACUS System .....	<i>B. C. Falkenhainer and R. S. Michalski</i>	367
Determining Arguments of Invariant Functional Descriptions .....		
<i>M. M. Kokar</i>	403	
Chemical Discovery as Belief Revision .....	<i>D. Rose and P. Langley</i>	423
News and Notes .....	<i>T. G. Dietterich</i>	453